



334538

The Gates Rubber Company
999 South Broadway
P.O. Box 5887
Denver, Colorado 80217
(303) 744-1911

November 5, 1985

Mr. Bharat Mathur, PE
Manager Permit Section
Division of Air Pollution Control
Illinois EPA
2200 Churchill Road
Springfield, Illinois 62706

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NOV 12 1985

IEPA - DAPC - SPFLD

Dear Mr. Mathur,

Form APC 200, Application for a Permit to Operate, is hereby submitted for a hose flush and test unit at the Gates Rubber Company, Galesburg, Illinois Division.

Very truly yours,

E. W. Karger
Manager, PEPP

cc: Al Stecklein
Paul Hinkson - Galesburg
Cecil Smith - Hyd. Mfg. Eng.
Chuck Buchna - Galesburg
Tom Bradford - Mech. Utilities Eng.

Encl: Mathur/Buchna/Karger

File: Galesburg Air Pollution



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

APPLICATION FOR A PERMIT (A)

☐ CONSTRUCT ☒ OPERATE

NAME OF EQUIPMENT TO BE
CONSTRUCTED OR OPERATED Hose flusher/tester (B)

FOR AGENCY USE ONLY

I. D. NO.

PERMIT NO.

DATE

095808 AAB

85 11 0025

11-12-85

1a. NAME OF OWNER: The Gates Rubber Company		2a. NAME OF OPERATOR: Gates Galesburg, Illinois Division	
1b. STREET ADDRESS OF OWNER: P.O. Box 5887		2b. STREET ADDRESS OF OPERATOR: RR3 Knoxville Road	
1c. CITY OF OWNER: Denver		2c. CITY OF OPERATOR: Galesburg	
1d. STATE OF OWNER: Colorado	1e. ZIP CODE: 80217	2d. STATE OF OPERATOR: Illinois	2e. ZIP CODE: 61401

3a. NAME OF CORPORATE DIVISION OR PLANT: Galesburg, Illinois Division		3b. STREET ADDRESS OF EMISSION SOURCE: RR3 Knoxville Road	
3c. CITY OF EMISSION SOURCE: Galesburg	3d. LOCATED WITHIN CITY LIMITS: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3e. TOWNSHIP:	3f. COUNTY: Knoxville
			3g. ZIP CODE: 61401

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL) E. W. Karger Manager PEPP	5. TELEPHONE NUMBER FOR AGENCY TO CALL: 303-744-4935
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) <input checked="" type="checkbox"/> OWNER: <input type="checkbox"/> OPERATOR <input type="checkbox"/> EMISSION SOURCE	7. YOUR DESIGNATION FOR THIS APPLICATION: (C) H O S E F L U S H

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT. BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

AUTHORIZED SIGNATURE(S): (D)

BY A. L. Stecklein 11/5/85
SIGNATURE DATE
A. L. Stecklein
TYPED OR PRINTED NAME OF SIGNER
Director of Engineering
TITLE OF SIGNER

BY RECEIVED
SIGNATURE NOV 12 1985 DATE
TYPED OR PRINTED NAME OF SIGNER
IEPA - DAPC - SPFLD
TITLE OF SIGNER

- (A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION OR OPERATION - AND NOT BOTH.
- (B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.
- (C) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS.
- (D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

<p>9. DOES THIS APPLICATION CONTAIN A PLOT PLAN/MAP: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY: AGENCY I.D. NUMBER <u>0 9 5 0 2 0 A A B</u> APPLICATION NUMBER <u>0 2 1 1 1 0 1 1</u> IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE? <input type="checkbox"/> YES <input type="checkbox"/> NO: SPECIFY <u>114</u> ACRES</p>	
<p>10. DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p style="text-align: center;">Gates drawing C35008</p>	
<p>11a. WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT: (a) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.</p>	<p>11b. HAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, NOT PREVIOUSLY RECEIVED AN OPERATING PERMIT: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT: (a) LISTS OR DESCRIBES THE EQUIPMENT (b) STATES WHETHER THE EQUIPMENT (i) IS ORIGINAL OR ADDITIONAL EQUIPMENT (ii) REPLACES EXISTING EQUIPMENT, OR (iii) MODIFIES EXISTING EQUIPMENT (c) PROVIDES THE ANTICIPATED OR ACTUAL DATES OF THE COMMENCEMENT OF CONSTRUCTION AND THE START-UP OF THE EQUIPMENT</p>
<p>12. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION--INCORPORATION BY REFERENCE" BEEN COMPLETED. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	
APPLICATION FOR OPERATING PERMIT ONLY	<p>13. DOES THE STARTUP OF AN EMISSION SOURCE COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF APPLICABLE STANDARDS: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS SOURCE: <input type="checkbox"/> YES <input type="checkbox"/> NO</p>
	<p>14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS SOURCE: <input type="checkbox"/> YES <input type="checkbox"/> NO</p>
	<p>15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES," HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE," BEEN COMPLETED FOR THIS SOURCE: <input type="checkbox"/> YES <input type="checkbox"/> NO</p>
	<p>16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS): <input type="checkbox"/> YES <input type="checkbox"/> NO</p>
	<p>17. WAS THIS OPERATION THE SUBJECT OF A VARIANCE PETITION FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE JUNE 13, 1972: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES," CITE: PCB NUMBER(S) _____, DATE OF BOARD ORDER _____</p> <p>WAS CONSTRUCTION OR MODIFICATION OF EQUIPMENT, SUFFICIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PRIOR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972: <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION AS EXHIBIT D.</p>
<p>18. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS ON EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):</p> <p>Form 220 page 1-3 Exhibit B page 4 Gates Drawing C35008-5 page 5 Certificate for A. L. Stecklein to execute applications - page 6</p>	
<p>TOTAL NUMBER OF PAGES <u>6</u></p>	



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*DATA AND INFORMATION
PROCESS EMISSION SOURCE

*THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF PLANT OWNER: The Gates Rubber Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER): Same
3. STREET ADDRESS OF EMISSION SOURCE: RR3 Knoxville Road	4. CITY OF EMISSION SOURCE: Galesburg, IL

GENERAL INFORMATION		
5. NAME OF PROCESS: Hose flush and test	6. NAME OF EMISSION SOURCE EQUIPMENT: Hose flusher/tester	
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: Gates Rubber Company	8. MODEL NUMBER: None	9. SERIAL NUMBER: 29-201-397
10. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: Hose Flusher Tester 29-201-397		
11. IDENTITY(S) OF ANY SIMILAR SOURCE(S) AT THE PLANT OR PREMISES NOT COVERED BY THE FORM (IF THE SOURCE IS COVERED BY ANOTHER APPLICATION, IDENTIFY THE APPLICATION): None		
12. AVERAGE OPERATING TIME OF EMISSION SOURCE: 8 HRS/DAY 5 DAYS/WK 50 WKS/YR		13. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 8 HRS/DAY 5 DAYS/WK 50 WKS/YR
14. PERCENT OF ANNUAL THROUGHPUT: DEC-FEB 25 % MAR-MAY 25 % JUN-AUG 25 % SEPT-NOV 25 %		

INSTRUCTIONS
1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
2. COMPLETE THE RAW MATERIAL, PRODUCT, WASTE MATERIAL, AND FUEL USAGE SECTIONS FOR THE PARTICULAR SOURCE EQUIPMENT. COMPOSITIONS OF MATERIALS MUST BE SUFFICIENTLY DETAILED TO ALLOW DETERMINATION OF THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS. IN PARTICULAR, THE COMPOSITION OF PAINTS, INKS, ETC., AND ANY SOLVENTS MUST BE FULLY DETAILED.
3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
4. OPERATING TIME AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD. AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME. AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.
MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD. MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION. MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

RAW MATERIAL INFORMATION

NAME OF RAW MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
20a. hose w/couplings	b. 125.0 LB/HR	c. 150.0 LB/HR
21a. perchloroethylene	b. 12.7 LB/HR	c. 15.2 LB/HR
22a.	b. LB/HR	c. LB/HR
23a.	b. LB/HR	c. LB/HR
24a.	b. LB/HR	c. LB/HR

PRODUCT INFORMATION

NAME OF PRODUCT	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
30a. certified hose w/coupling	b. 125 LB/HR	c. 150.0 LB/HR
31a.	b. LB/HR	c. LB/HR
32a.	b. LB/HR	c. LB/HR
33a.	b. LB/HR	c. LB/HR
34a.	b. LB/HR	c. LB/HR

WASTE MATERIAL INFORMATION

NAME OF WASTE MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
40a. None	b. LB/HR	c. LB/HR
41a.	b. LB/HR	c. LB/HR
42a.	b. LB/HR	c. LB/HR
43a.	b. LB/HR	c. LB/HR
44a.	b. LB/HR	c. LB/HR

*FUEL USAGE INFORMATION

FUEL USED	TYPE	HEAT CONTENT
50a. NATURAL GAS <input type="checkbox"/>	b. _____	c. 1000 BTU/SCF
OTHER GAS <input type="checkbox"/>		BTU/SCF
OIL <input type="checkbox"/>	None	BTU/GAL
COAL <input type="checkbox"/>		BTU/LB
OTHER <input type="checkbox"/>		BTU/LB
d. AVERAGE FIRING RATE PER IDENTICAL SOURCE: BTU/HR	e. MAXIMUM FIRING RATE PER IDENTICAL SOURCE: BTU/HR	

*THIS SECTION IS TO BE COMPLETED FOR ANY FUEL USED DIRECTLY IN THE PROCESS EMISSION SOURCE, E.G. GAS IN A DRYER, OR COAL IN A MELT FURNACE.

*EMISSION INFORMATION			
51. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):			
AVERAGE OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE	b.	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	52a. GR/SCF	LB/HR	c.
CARBON MONOXIDE	53a. PPM (VOL)	LB/HR	c.
NITROGEN OXIDES	54a. PPM (VOL)	LB/HR	c.
ORGANIC MATERIAL	55a. PPM (VOL)	12.7 LB/HR	material balance
SULFUR DIOXIDE	56a. PPM (VOL)	LB/HR	c.
**OTHER (SPECIFY)	57a. PPM (VOL)	LB/HR	c.
MAXIMUM OPERATION			
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE	b.	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	58a. GR/SCF	LB/HR	c.
CARBON MONOXIDE	59a. PPM (VOL)	LB/HR	c.
NITROGEN OXIDES	60a. PPM (VOL)	LB/HR	c.
ORGANIC MATERIAL	61a. PPM (VOL)	15.2 LB/HR	material balance
SULFUR DIOXIDE	62a. PPM (VOL)	LB/HR	c.
**OTHER (SPECIFY)	63a. PPM (VOL)	LB/HR	c.

*ITEMS 52 THROUGH 63 NEED NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
 ***"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

***EXHAUST POINT INFORMATION	
64. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT: Flusher emission to atmosphere	
65. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.): discharges thru east wall	
66. EXIT HEIGHT ABOVE GRADE: 20 ft.	67. EXIT DIAMETER: 4"Ø
68. GREATEST HEIGHT OF NEARBY BUILDINGS: None FT	69. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: 400 FT
AVERAGE OPERATION	MAXIMUM OPERATION
70. EXIT GAS TEMPERATURE: 80 °F	72. EXIT GAS TEMPERATURE: 80 °F
71. GAS FLOW RATE THROUGH EACH EXIT: 17.3 ACFM	73. GAS FLOW RATE THROUGH EACH EACH EXIT: 20.8 ACFM

***THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

EXHIBIT B

I. Equipment Description

Short pieces of hose are clamped into a frame. Air is introduced into the hose and the frame is submerged in the unit's water reservoir. A visual inspection is made for leaks. The frame is raised out of the water. Perchloroethylene is circulated (flushed) thru the hose from a holding reservoir. When the flush cycle is finished, compressed air blows thru the hose and vents to the atmosphere for 10 seconds. The hose is then removed from the frame.

II. Type of Equipment

This is a new piece of equipment.

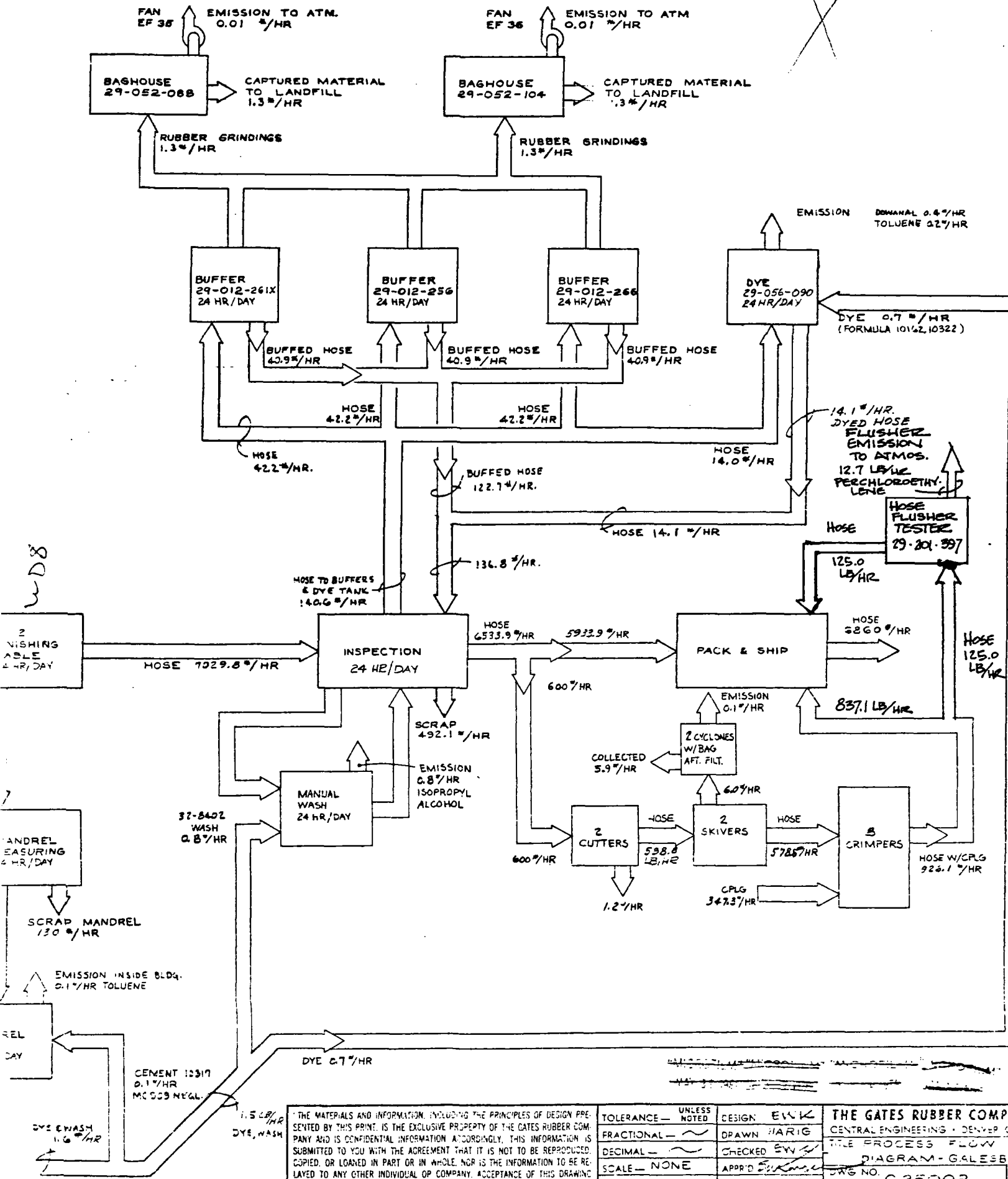
III. Construction/Startup

This equipment was put in operation in April, 1985. It was anticipated that venting to the outside would not be necessary. It was, however, added to the unit before the first on May, 1985.

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NOV 12 1985

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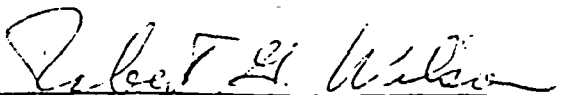
TOLERANCE — UNLESS NOTED	DESIGN — ENK	THE GATES RUBBER COMP
FRACTIONAL —	DRAWN — HARG	CENTRAL ENGINEERING — DENVER
DECIMAL —	CHECKED — EY	TITLE PROCESS FLOW
SCALE — NONE	APPRO'D —	DIAGRAM — GALESB
DO NOT SCALE PRINT	DATE — 10-30-72	DWG NO. C 35008

C E R T I F I C A T E

As Assistant Secretary of The Gates Corporation, I hereby certify that the following is a true and correct copy of resolution adopted by the Board of Directors of said Corporation at a meeting held November 2, 1984, and which still remains in full force and effect:

RESOLVED, that The Gates Corporation make application to various state and federal agencies for the construction and operation of air emission sources and control equipment, for the construction and operation of waste water discharges and treatment systems and for the generation, treatment, storage and disposal of hazardous wastes and that said applications be executed on behalf of the Corporation by A. L. Stecklein, Director of Engineering.

WITNESS my hand and seal of said Corporation this 7th day of November, 1984.


Assistant Secretary